

Title (en)

Heatable textile sheet using light

Title (de)

Beheizbarer Textilbogen mit Hilfe von Licht

Title (fr)

Feuille textile chauffante utilisant la lumière

Publication

**EP 2801658 A1 20141112 (EN)**

Application

**EP 13194742 A 20131128**

Priority

KR 20130051908 A 20130508

Abstract (en)

Disclosed herein is a textile using light (10). The textile unit comprises a heating unit (100) having a shape of dot or stripe on a surface of a fabric and a non-heating unit (200) being not overlapped with the heating unit. The heating unit is formed by coating carbon nanotube (CNT) or group-4 metal carbide in a shape of dot or stripe. The heating textile sheet using light according to the present invention has excellent heat efficiency by converting light such as a solar cell into thermal energy.

IPC 8 full level

**D06M 11/74** (2006.01); **F24J 2/48** (2006.01)

CPC (source: EP KR US)

**B41M 5/30** (2013.01 - US); **B41M 5/41** (2013.01 - US); **D06M 11/73** (2013.01 - KR); **D06M 11/74** (2013.01 - EP US);  
**D06M 23/16** (2013.01 - EP US); **D06N 3/0063** (2013.01 - US); **D06N 3/14** (2013.01 - US); **D06P 1/00** (2013.01 - KR);  
**D06P 1/004** (2013.01 - EP US); **D06P 5/00** (2013.01 - US); **D10B 2501/00** (2013.01 - US); **Y10T 428/2481** (2015.01 - EP US)

Citation (applicant)

- KR 910003210 B1 19910522 - POLYPLASTICS CO [JP]
- WO 0234988 A2 20020502 - MILLIKEN & CO [US]

Citation (search report)

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Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 2801658 A1 20141112**; CN 104968854 A 20151007; CN 104968854 B 20170609; JP 2015524027 A 20150820; JP 5967557 B2 20160810;  
KR 101321017 B1 20131023; US 2016076196 A1 20160317; US 9469938 B2 20161018; WO 2014181927 A1 20141113

DOCDB simple family (application)

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KR 2013007242 W 20130812; US 201314119340 A 20130812